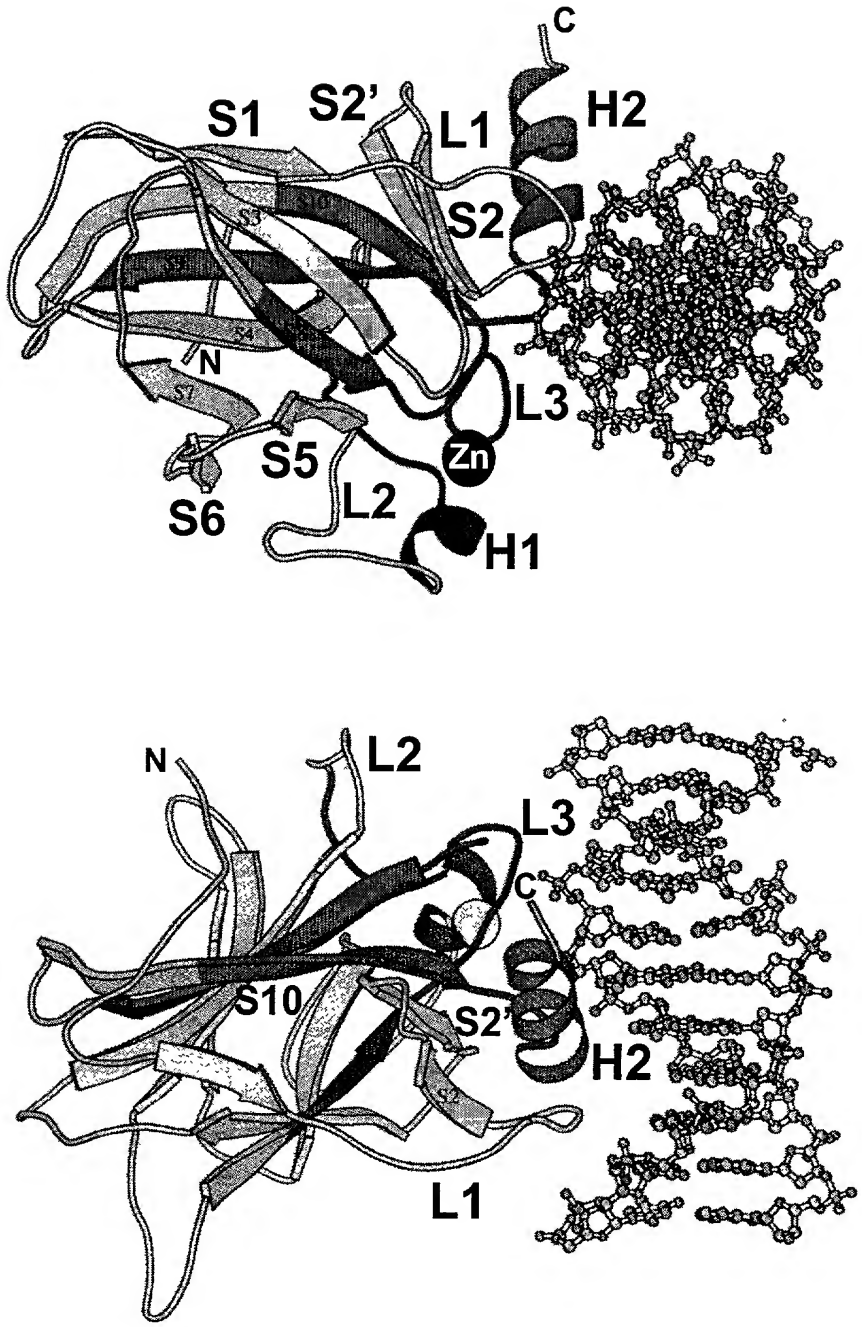
FIGURE 1A



20E090 "9ZTZZ00T

FIGURE 1B

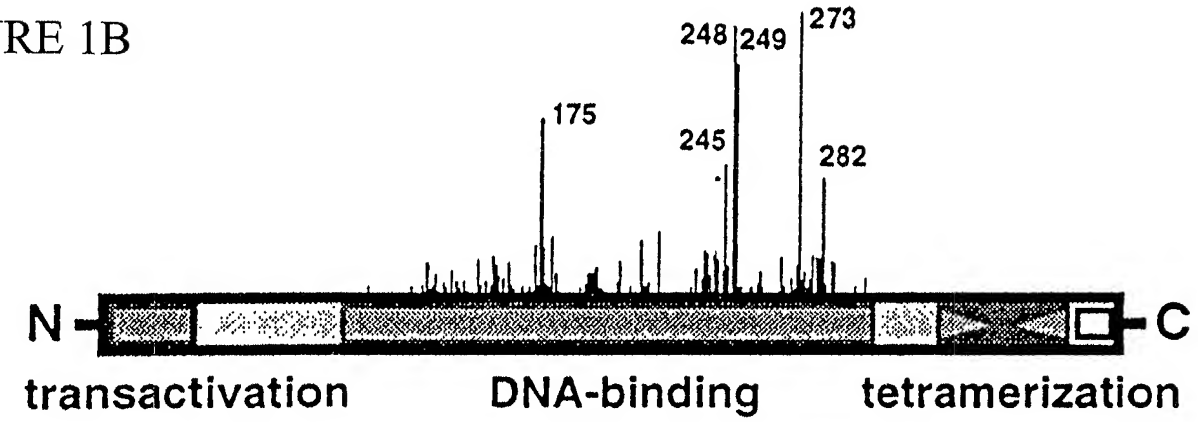
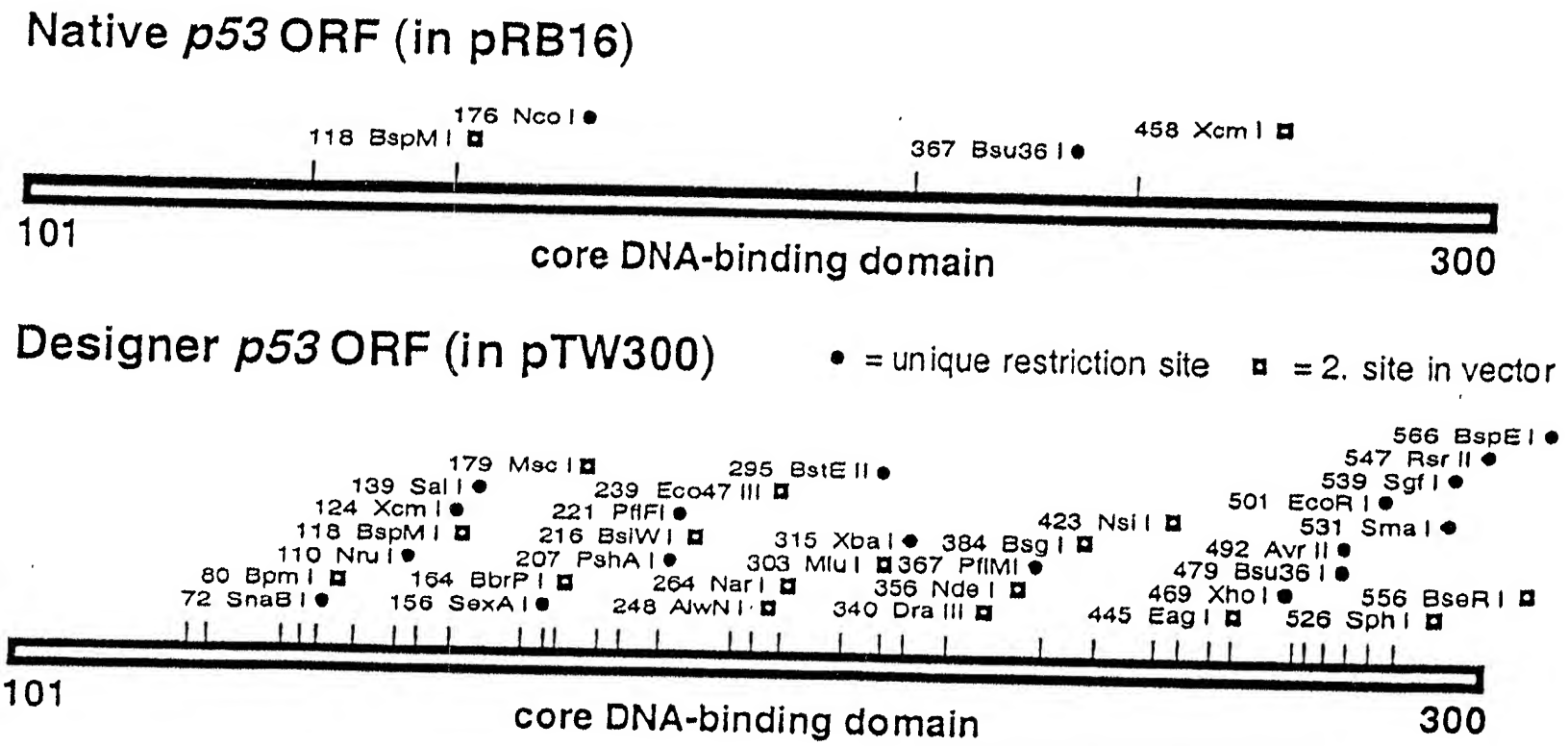


FIGURE 2A


Native p53 ORF (in pRB16)
176 Nco I
118 BspM I
367 Bsu36 I
458 Xcm I
101
core DNA-binding domain
300
Designer p53 ORF (in pTW300)
• = unique restriction site
= 2. site in vector
566 BspE I
547 Rsr II
539 Sgf I
501 EcoR I
531 Sma I
492 Avr II
479 Bsu36 I
469 Xho I
556 BseR I
526 Sph I
445 Eag I
423 Nsi I
384 Bsg I
367 Pfl MI
356 Nde I
340 Dra III
315 Xba I
303 Mlu I
295 BstE II
264 Nar I
248 AlwN I
239 Eco47 III
221 Pfl FI
216 BsiW I
207 PshA I
179 Msc I
164 BbrP I
156 SexA I
139 Sal I
124 Xcm I
118 BspM I
110 Nru I
80 Bpm I
72 SnaB I
101
core DNA-binding domain
300

20E090 "9ZT2200T

FIGURE 2B

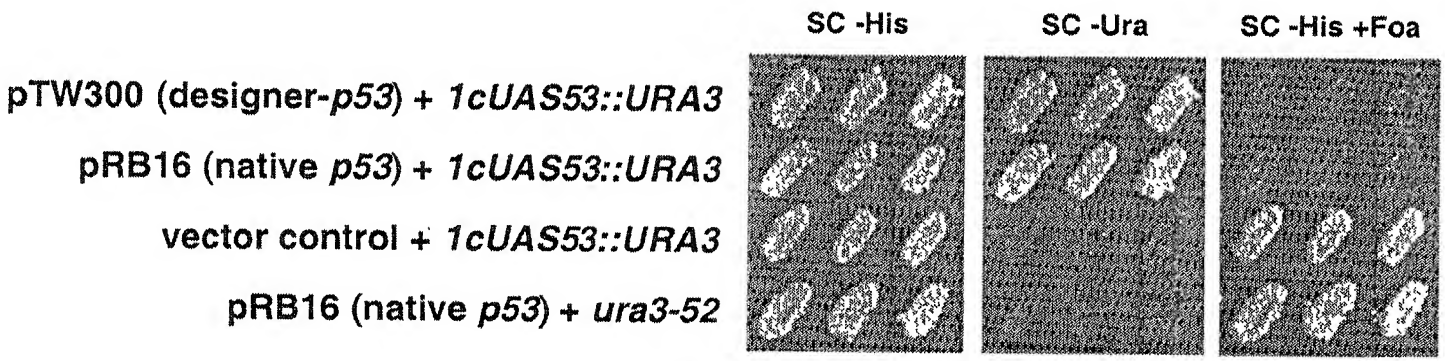
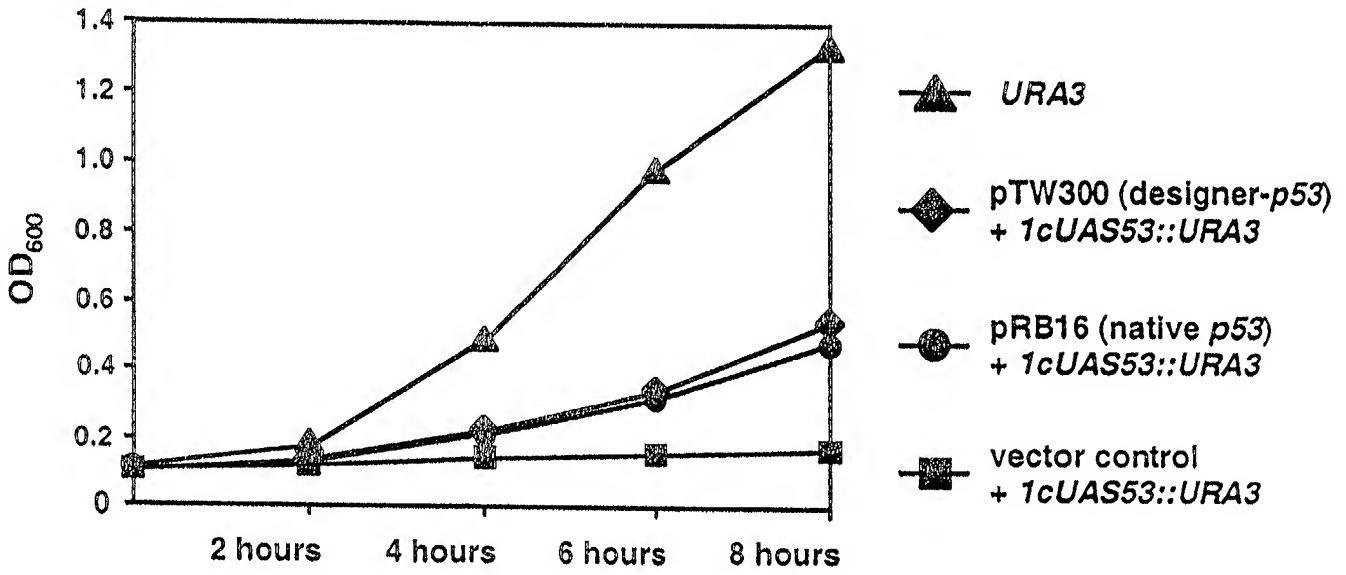
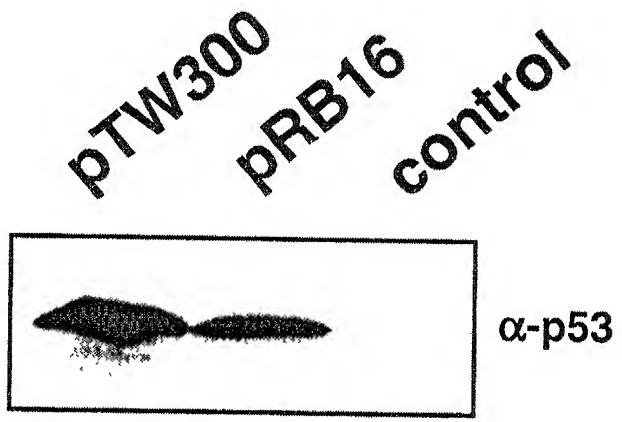


FIGURE 2C


1.4
1.2
1.0
0.8
0.6
0.4
0.2
0
OD600
2 hours
4 hours
6 hours
8 hours
URA3
pTW300 (designer-p53) + 1cUAS53::URA3
pRB16 (native p53) + 1cUAS53::URA3
vector control + 1cUAS53::URA3

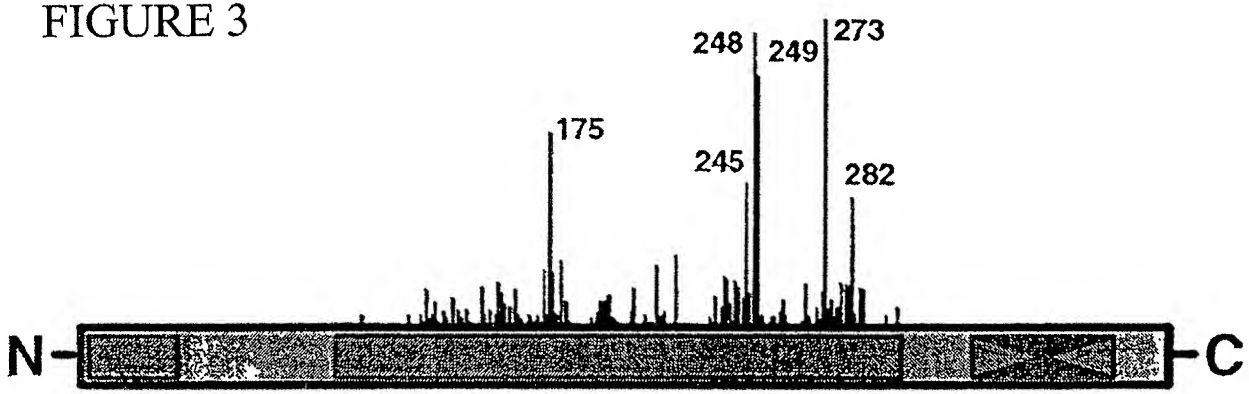
20E090" 9ZF2Z00F

FIGURE 2D



20E090" 9ZT2ZOOT

FIGURE 3



Primary Analysis for Suppressor Mutations	
Arg175His Gly245Ser Arg248Gln Arg248Trp Arg249Ser Arg273Cys Arg273His Arg282Trp	8 p53 mutants 1492/6645 22%

Subcloning Analysis			
Cys135Tyr	His179Arg	Gly245Cys	27 p53 mutants 961/6645 15%
Cys141Tyr	His179Tyr	Arg248Leu	
Pro151Ser	Tyr205Cys	Arg249Met	
Val157Phe	Tyr220Cys	Val272Met	
Arg158Leu	Tyr234Cys	Arg273Leu	
Tyr163Cys	Met237Ile	Pro278Leu	
Val173Leu	Cys238Tyr	Arg280Thr	
Val173Met	Ser241Phe	Glu285Lys	
Cys176Phe	Gly245Asp	Glu286Lys	